

Application No.: 10/521,072

Docket No.: 60680-2005

**AMENDMENTS TO THE CLAIMS**

Please amend the claims as follows:

1. (Previously Amended) A plain bearing having an overlay alloy layer at a sliding surface of the plain bearing, the plain bearing comprising a layer of a strong backing material, a layer of a first bearing alloy bonded to the strong backing material and a layer of a second bearing material comprising said overlay material bonded to said first bearing alloy layer, characterised in that said second bearing material comprises essentially pure tin without any other metallic alloying constituents, other than unavoidable impurities, having included in the matrix thereof an organic levelling agent.

2-9 (Cancelled)

Please add new claims 10 - 19 as follows:

10. (New) A plain bearing according to claim 1, wherein the organic material is selected from the group comprising at least one of nonylphenolpolyglycoether and pyrocatechol.

11. (New) A plain bearing according to claim 1, wherein the hardness of the overlay is in the range of about 20 to 30Hv.

12. (New) A plain bearing according to claim 1, further including an interlayer between the surface of the first bearing material and the tin overlay to act as a diffusion barrier therebetween.

13. (New) A plain bearing according to claim 12, wherein the interlayer is selected from the group comprising at least one of nickel, cobalt, copper, silver, iron, and alloys thereof.

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14. (New) A method for the deposition of an overlay layer onto the surface of a plain bearing, the bearing comprising a strong backing material having a layer of a first bearing material thereon, said overlay being deposited upon the surface of said first bearing material, the method comprising the steps of:

providing a bearing having a surface on which to deposit said overlay;  
immersing said bearing in a plating solution having a supply of tin ions and an organic levelling agent in said solution;

making said bearing cathodic with respect to an anode in said solution;  
and

depositing an overlay of tin, apart from unavoidable impurities, said tin overlay also having said organic levelling agent included in a matrix thereof.

15. (New) A method according to claim 14, wherein the overlay is deposited in a slot jig apparatus.

16. (New) A method according to claim 15, wherein the plating solution is sparged through the slot towards the bearing bore.

17. (New) A method according to claim 14, wherein a plating current density lies in the range from about 2 to 3 A/dm<sup>2</sup>.

18. (New) A method according to claim 15, wherein a plating current density lies in the range from about 2 to 3 A/dm<sup>2</sup>.